

Title (en)
WIRELESS COMMUNICATION DEVICE AND METHOD FOR MULTI-MCS OFDM TRANSMISSIONS AT DIFFERENT TRANSMISSION POWER LEVELS

Title (de)
DRAHTLOSE KOMMUNIKATIONSVORRICHTUNG UND VERFAHREN FÜR MULTI-MCS-OFDM-ÜBERTRAGUNGEN BEI VERSCHIEDENEN SENDELEISTUNGSPEGELN

Title (fr)
DISPOSITIF DE COMMUNICATION SANS FIL ET PROCÉDÉ DE TRANSMISSIONS OFDM À MCS MULTIPLES À DES NIVEAUX DE PUISSANCE DE TRANSMISSION DIFFÉRENTS

Publication
EP 2740247 A4 20150325 (EN)

Application
EP 11870676 A 20111205

Priority
• US 201161515680 P 20110805
• US 2011063301 W 20111205

Abstract (en)
[origin: WO2013022468A1] Embodiments of a wireless communication device and method for multi-MCS OFDM transmissions at different transmission power levels are generally described herein. In some embodiments, the wireless communication device may have a multi-MCS OFDM transmitter that is configured to encode data for transmission over two or more RF channels with a single encoding scheme to generate an encoded data stream. The transmitter may segment bits of the encoded data stream into a bit stream for each of the RF channels based on a selected modulation level for each of the two or more RF channels. A separate time-domain multicarrier waveform may be concurrently transmitted on each of the two or more RF channels at a power level that is selected not to exceed a maximum allowable transmit power level for that RF channel. The modulation level for each RF channel may be selected based at least in part on the maximum allowable transmit power level for that RF channel.

IPC 8 full level
H04L 1/00 (2006.01); **H04L 25/03** (2006.01); **H04L 27/26** (2006.01); **H04W 84/12** (2009.01)

CPC (source: EP US)
H04L 1/0003 (2013.01 - EP US); **H04L 1/0009** (2013.01 - EP US); **H04L 1/0015** (2013.01 - EP US); **H04L 1/06** (2013.01 - EP US); **H04L 5/0007** (2013.01 - US); **H04L 5/0023** (2013.01 - EP US); **H04L 5/0046** (2013.01 - EP US); **H04L 27/2627** (2013.01 - EP US); **H04W 52/367** (2013.01 - EP US)

Citation (search report)
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• [Y] RON PORAT (BROADCOM): "S1G Spectrum Regulations ; 11-11-0685-00-00ah-s1g-spectrum-regulations", IEEE SA MENTOR; 11-11-0685-00-00AH-S1G-SPECTRUM-REGULATIONS, IEEE-SA MENTOR, PISCATAWAY, NJ USA, vol. 802.11ah, 7 May 2011 (2011-05-07), pages 1 - 10, XP068036454
• [Y] MINYOUNG PARK (INTEL): "TGah use cases summary and aggregated PHY rates analysis ; 11-11-0299-00-00ah-tgah-use-cases-summary-and-aggregated-phy-rates-analysis", IEEE SA MENTOR; 11-11-0299-00-00AH-TGAH-USE-CASES-SUMMARY-AND-AGGREGATED-PHY-RATES-ANALYSIS, IEEE-SA MENTOR, PISCATAWAY, NJ USA, vol. 802.11ah, 13 March 2011 (2011-03-13), pages 1 - 11, XP068035815
• See references of WO 2013022468A1

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US 2011063301 W 20111205; EP 11870676 A 20111205; JP 2014523908 A 20111205; KR 20147005385 A 20111205; KR 20157010076 A 20111205; US 201113993304 A 20111205